COMPRESSED AIR MAGAZINE

PUBLISHED BY

Compressed Air Magazine Company

NEW YORK - - - - - LONDON

Business, Editorial, and Publication Offices
Phillipsburg, N. J.

INDEX to VOLUME 50

JANUARY-DECEMBER, 1945

(Copyright 1945 Compressed Air Magazine Company)

COMPRESSED AIR MAGAZINE

INDEX TO VOLUME 50

JANUARY-DECEMBER, 1945

A

Aerofoam, New Fire Extinguisher....277
Air Brakes, 75 Years of (Letter)....119
Compressors—Eugene W. Feller....60
Controlled Crane....221
Low-Pressure, Barrier Against Insects....299
Power Speeds Repair of Bomber Engines....244
Powered Tool, Sapper's Best Friend—Maj. John North....112
Spray, New, for Doping Airplane Fabrics....90
Transport, Postwar....218
Airfoam, Synthetic-Rubber....247
Airplane Cockpit Enclosures, Making....216
Engines of the Future....171
Guide Markers....300
Jet-Type, is Pressurized....169
Plants, Curtiss-Wright's, in Buffalo—R. G. Skerrett....148
Airport, Building in a Hurry—C. H. Vivian....315
Anaconda, Compressed Air at....168
Animals, Miniature—R. G. Skerrett....185
Anodizing Rack, New....54
Aronovsky, S. I.—Soft-Grit Blasting of Metals....268
Atomic-Bomb Benefits....330
Bomb, Can Mankind Handle It?....251
Audels Pumps, Hydraulics, Air Compressors—Frank Graham....60

B

Ball, James O.—Oil Shales of the West....156
Balloon Barrage....273
Barrages, Hydrogen for—Allen S. Park....127
Bats Use Radar....59
Beets, Sugar, Russians Pretreat....59
Bell, Great, of Moscow....24
Bells of Many Lands—Paul C. Ziemke....85
Belt Service, Long....24
Bicycle-Tire Pump....302
Big Ben Is *Not* Silent....248
Blasting of Metals, Soft-Grit—E. C. Lathrop and S. I. Aronovsky....268
Blimps, Fire-Resistant Hangars for—R. G. Skerrett....5
Blueprint Storage Bin....277
Boiler-Feed-Water Decarbonator....196
Bomb, Atomic, Benefits of....330
Atomic, Can Mankind Handle It?....251
Fire, Genesis of....169
Book Papers, Making—Allan W. Loomis....48
Boom Stop, Crane, Automatic....146
Borax, Memories of 20-Mule-Team Days—C. H. Vivian....233
Boron Carbide, Harder Than a Diamond....192
Brazil's Steel Plant....220
Bridge, a New Railway, in Australia—Ian McGregor....288
Bridges, Ponton—Robert Clark....2
Broaching and Sizing Problem, How Workman Solved....221
Bulk Distribution of Petroleum Products—W. J. Kearns....324
Bulldozers Come First—McGraw-Hill Book Company....60
Burner, Submerged Air-Gas, for Pickling Tanks—A. M. Hoffmann....89
Butte's War Record....220
Buzzard Buster....250

C

Carrier, *Franklin*, Story of the—Robert G. Skerrett....254
Cast Iron....251
Iron, Modern, a New Engineering Material—J. B. Godshall....237
Cement, Portland, Palletizing—R. L. Rhodes....286
Chapman, C. T.—Portable Air Compressors in Utilities Work....10
Chemical Gardening—M. R. Vogel....161
Gardening....170
Chlorine-Dioxide Generator Brings New Reagent to Industry—Anna M. Hoffmann....142
Chrome, Canadian—W. M. Goodwin....174
Clark, Robert—Perpetual Motion....190
—Span that Stream....2
Coal, Frozen, Thawed by Radiant Heat....323
Packaged, for Household Use....26
Cockpit Enclosures, Free-Blown Plastic....216
Cold Storage Afloat....24
Color Code for Lubricating....168
is Power—George D. Gaw....79
Compressed Air Aids British Salvors—Allen S. Park....210
as an Aid in Fire-Fighting—C. H. Vivian....178
as a Measuring Medium....302
at Anaconda....168
at Work....46
at Work....110
at Work....164
at Work....242
Blows Refractory into Place....146
Drilling Teeth with Aid of....250
Forms Cockpit Enclosures for Airplanes....216
Helps Sanitary Force....92
Compressor, Primitive....22
Compressors, Portable, in Utilities Work—C. T. Chapman....10
Corrosion Prevention....60
Crane Boom Stop, Automatic....146
Powerful, Completely Air Controlled....221
Crater Lake, New Mexico's—E. R. Harrington....188
Curtiss-Wright's Buffalo Plants—R. G. Skerrett....148
Cyanogas and Rabbits....273

D

Dam Built to Resist Earthquakes....23
Fontana, Highest in Eastern United States....223
Grand Coulee, Floating Repair Plant for—R. G. Skerrett....74
Day, R. P.—So the B-29's Could Fly....274
Decarbonator, Boiler-Feed-Water....196
Dentist Uses Compressed Air for Drilling Teeth....250
Descales Itself, Tubing that....117
Detector, Mercury-Vapor....249
Dive, Record, Simulated....168
Dowel-Setting Machine....302
Drilling for Water for Armed Troops—Daniel Frost....20
Drill, Rock, Penetrates 22 Inches of Steel—D. E. Hughes....88
Rock, Recollections—Jeffrey Schweitzer....166
Wagon, Foundation Testing with—C. H. Vivian....206
Dry Docks, Floating, Story of Our Naval—R. G. Skerrett....308

E

Electrostatics, Paint Deposited by Aid of....277
Elephant Helps Run a Railroad....220
Engine Crankshaft Safeguarded by Pneumatic System....196
Engines, Airplane, of the Future....171
Bomber, Air Power Speeds Repair of....244
Extrusion Machine Makes Endless Tubing....54

F

Fans, High-Speed, Vacuum Test Pit for....56
Farm, Machinery on....91
Fewclothes—W. S. Powell....297
Fiberglas—William H. Page....200
Fire-Bomb, Genesis of....169
Extinguisher—Air, Water, and Soybeans....277
Fighting, Compressed Air as an Aid in—C. H. Vivian....178
Piston, the Oriental....22
Fishway, Hell's Gate, Successful....273
Fishways for Frazer River Salmon—Copeland Lake....122
Flame Throwers for Killing Weeds....220
Floating Dry Docks, Story of Our Navy—R. G. Skerrett....308
Fluorescent Tubes, Use for Old....92
Flying Dutchman, Airplane Lifeboat—Copeland Lake....214
Fontana Dam, Highest in Eastern United States....223

Foods, Photoelectric Sorting of—Anna M. Hoffmann....246
Foundation Testing with a Wagon Drill—C. H. Vivian....206
Franklin, Story of the Carrier—R. G. Skerrett....254
Frost, Daniel—Water for Our Troops....20
Furs to be High....250

G

Gardener, Victory....118
Gardening, Soilless, Note of Clarification on—
Dr. W. F. Gericke....295
Without Soil....170
Gardens Without Soil—M. R. Vogel....161
Gas, Low-Cost, from Lignite....303
Texas, for the Pittsburgh Area—Elton Sterrett....96
Turbine, the....57
Gasoline, German Synthetic....219
100-Octane—C. H. Vivian....130
100-Octane....145
Tank Farms on the Marianas—R. P. Day....274
Gauge, Small Testing....219
Gaw, George D.—Color is Power....79
Gericke, Dr. W. F.—Note of Clarification on Hydroponics....295
Gibraltar, Tunneling at, (Letter)....119
Glass, Optical, for Warfare—Robert G. Skerrett....103
Tanks for Heavy Industry....117
Godshall, J. B.—Modern Cast Iron, a New Engineering Material....237
Gold Discovery in Montana Noted....250
Mining Revival....194
Goodwin, W. M.—Canadian Chrome....174
Grand Coulee Dam, Floating Repair Plant for—R. G. Skerrett....74
G-Suits for Fliers....53
Gunsight, Gyro, Navy's....328

H

Hangars, Fire-Resistant, for Blimps—R. G. Skerrett....5
Hardware Counts....299
Harrington, E. R.—New Mexico's Crater Lake....188
Helium for Tire Inflation....303
Highways, Paved, Ohio Widens Without Steel Forms....92
Hoffmann, Anna M.—Chlorine-Dioxide Generator Brings New Reagent to Industry....142
—Photoelectric Sorting of Foods....246
—Submerged Air-Gas Burner for Pickling Tanks....89
Honduran Road—Graham S. Quate....114
Hubbellite Exterminates Cockroaches....299
Hughes, D. E.—Rock Drill Penetrates 22 Inches of Steel....88
Hunting-License Selector....299
Hydrogen for Barrage Balloons—Allen S. Park....127
Hydroponics—M. R. Vogel....161
Note of Clarification on—Dr. W. F. Gericke....295

I

Impregnated Wood for Our Blimp Hangars—R. G. Skerrett....5
Incinerator, Garbage, Makes Use of Compressed Air....92
Insects, Low-Pressure Air Barrier Against....299
Iron, Steep Rock....273

J

Jenkins, Edwin H.—Why Amateur Portraits Look that Way....16
Jet-Plane Cabin is Pressurized....169
Jobs and Machines....301
Jonas, Louis Paul, and his Miniature Animals—R. G. Skerrett....185

K

Kearns, W. J.—Bulk Distribution of Petroleum Products....324
Kutz, Frank E., Dies....145

L

Lake, Copeland—Fishways for Frazer River Salmon....122
—The Flying Dutchman Lifeboat....214
Simon, Dies....219
Land, Putting to Work....276
Lathrop E. C.—Soft-Grit Blasting of Metals....268
Lemon Tree Grows in Mine....300
Lifeboat, the Flying Dutchman—Copeland Lake....214
Lignite, Low-Coast Gas from....303
Liners Driven Into Engine Cylinder Block by Special Presses....329
Lithium, Searles Lake an Important Producer of....143
Loomis, Allan W.—Making Book Papers....48
Lubricant that Thins and Thickens with Temperature Changes....24
Lubricating Color Code....168

M

Machinery on the Farm....91
Machines Made to Last....301
Magnet, Road, Saves Auto Tires....169
Maintenance Men at the Fighting Fronts....25
Markers to Guide Airplanes....299
Materials, Diversified Uses of....330
McGregor, Ian—A New Railway Bridge in Australia....288
McIver, Jack, Passes....169
Mercury-Vapor Detector....249
Microscope, Powerful Electron....169
Mine, Mount Hope, Expands—C. H. Vivian....64
Miners, to Train Young....299
Moles, The, at War,....119
The, Annual Award....26
Morrow, "Scrubby," Death of....168
Mount Hope Mine Expands—C. H. Vivian....64

N

Navy's Steel Pontoons—Robert G. Skerrett....226
Navy Yard, Brooklyn—Robert G. Skerrett....254
Nesbitt, J. F.—East Side, West Side, Underneath the Town....265
Nile-Control Project....218
Norbide, Harder Than a Diamond....192
North, Maj. John,—Sapper's Best Friend....112

O

Obituary—Frank E. Kutz....145
Simon Lake....219
"Scrubby" Morrow....168
Oil Drillers, Powder Aids....220
Sailers of Old....59
Shales of the West—James O. Ball....156
Optical Glass for Warfare—Robert G. Skerrett....103

P

Packaging with Silica Gel—R. G. Skerrett....280
Page, William H.—Fiberglas....200
Paint Deposited by Aid of Electrostatics....277
Palletizing of Portland Cement—R. L. Rhodes....286
Papers, Making Book—Allan W. Loomis....48
Park, Allen S.—A Stadium with an Air-Supported Roof....182
—Compressed Air Aids British Salvors....210
—Hydrogen for Barrage Balloons....127
Perpetual Motion—Robert Clark....190
Petroleum Products, Bulk Distribution of—W. J. Kearns....324
Photoelectric Sorting of Foods—Anna M. Hoffmann....246
Photographs, Amateur, Why They Look that Way—Edwin H. Jenkins....16
Pickling Tanks, Submerged Air-Gas Burner for—A. M. Hoffmann....89
Pipe Lines, Oil, Are Problem....299
Plating Rack Saves Handling Time....92
Pneumatic Conveyors, Granite-Lined Elbows for....26
Devices, Wartime....300
Ejector and Transporter....195
Lift Speeds Output of Vacuum Coating Machine....217
System Safeguards Engine Crankshaft....196
Tool, Sapper's Best Friend—Maj. John North....112
Tube, Mouse Plugs....24
Ponton Bridges—Robert Clark....2
Pontoons, Steel, Navy's—Robert G. Skerrett....226
Portable Air Compressors in Utilities Work—C. T. Chapman....10
Potato Gold Rush....220
Powder Aids Oil Drillers....220
Smokeless, for Our Navy—R. G. Skerrett....39

Powell, W. S.—*Fewclothes* 297
Presses, Special, Expedite Placing Liners in Engine Cylinder Block 329
Pressure-Sensitive Device for Measurement and Control 303
Prospectors, Call for 58
Pump for Bicycle Tires 302

R

Rabbits and Cyanogas 273
Killing with Gas 24
Radar, Bats Use 59
Railroad Cars, Portable Washing Machine for 172
Progress 118
Tunnel Opened 250
Refractory Blown Into Place by Compressed Air 146
Refrigerator Barges 24
Repair Plant, Floating, for Grand Coulee Dam—R. G. Skerrett 74
Rhodes, R. L.—Palletizing of Portland Cement 286
Rice, Pepping Up Our 194
Road, Honduran—Graham S. Quate 114
Paved, Ohio Widens Without Steel Forms 92
Roadbuilding, Postwar 170
Roberts, Richard C.—Ships from the Mountains 71
Rock-Drill Recollections—Jeffrey Schweitzer 166
Roof, Air-Supported, a Stadium with an—Allen S. Park 182
Rust—E. F. Houghton & Company 60

S

Sailing Vessels, Oil-Carrying 59
Salmon Fishways on Frazer River—Copeland Lake 122
Salt Cellar, Cleveland's Liquid 144
Our Most Useful Mineral—E. B. Tustin, Jr. 291
Salvors, British, Compressed Air Aids—Allen S. Park 210
Sapper's Best Friend—Air-Powered Tool—Maj. John North 112
Schweitzer, Jeffrey—Rock-Drill Recollections 166
—Tuff 55
Schwep, C. F.—A Caldron of Victory ..... September
Science in Industry 91
Shaft, New Leonard, at Mount Hope Mine—C. H. Vivian 64
Ships from the Mountains—Richard C. Roberts 71
Sun—C. H. Vivian 30
Silica Gel Did Its War Work Well—R. G. Skerrett 280
Smokeless Powder for Our Navy—R. G. Skerrett 39
Skerrett, R. G.—A Modern Noah's Ark 185
—Curtiss-Wright's Buffalo Plants 148
—Fire-Resistant Hangars for Our Blimps 5
—Floating Repair Plant for Grand Coulee Dam 74
—Silica Gel Did Its War Work Well 280
—Smokeless Powder for Our Navy 39
—Story of Our Naval Floating Dry Docks 308
—The Eyes of Warfare 103
—The Navy's Steel Pontoons 226
—The Story of the Carrier *Franklin* 254
Soft-Grit Blasting of Metals—E. C. Lathrop and S. I. Aronovsky 268
Soil-Cement in Highway Improvement Work 195
Exploration with a Wagon Drill—C. H. Vivian 206
Solar Boilers, Soviet 300
Soldering Machine, Electric, Expedites Work 119
Soybeans Ingredient of Fire Extinguisher 277
Standardization Problems 25
Steelmaker, Temperature Recorder Aids 146
Steel Plant, Brazil's 220
Steep Rock Iron 273
Sterrett, Elton—Texas Gas for the Pittsburgh Area 96
Stiefel, F. W., Award to 61
Submarine, Robert Fulton's 196
Subway System, New York—J. F. Nesbitt 265
Sugar Beets, Russians Pretreat 59
Suits, Anti-Blackout, for Fliers 53
Sun Ships—C. H. Vivian 30

T

Tank Farms, Gasoline, on the Marianas—R. P. Day 274
Tanks of Glass for Heavy Industry 117
Technology, Enemy, Bared 276
Teeth, Drilling With Air 250
Telegraph-Messenger Service, Robot 217
Temperature Recorder Aids Steelmaker 146
Test Pit, Vacuum, for High-Speed Fans 56
Thawing Pits for Coal Cars 323
Tidal Power Scheme, English, Revived 193
Tool Control, Central 58
Thrustorq, Measuring Instrument 302
Tubing, Plastic, Extrusion Machine for 54
that Descales Itself 117
Tuff—Jeffrey Schweitzer 55
Tunnel, Railroad, Opened 250
Tunneling at Gibraltar (Letter) 119
Turbine, the Gas 57
Tustin, Jr., E. B.—Salt, Our Most Useful Mineral 291
Twenty-Mule-Team Days, Memories of—C. H. Vivian 233

U

Unemployables, Fewer 194

V

Vacuum Coating Machine, Pneumatic Lift Speeds Output of ... 217
Test Pit for High-Speed Fans 56
Vanadium, a Metal Named for a Goddess—C. H. Vivian 260
Vivian, C. H.—Building an Airport In a Hurry 315
—Compressed Air as an Aid in Fire-Fighting 178
—Foundation Testing with a Wagon Drill 206
—Memories of 20-Mule-Team Days 233
—Mount Hope Mine Expands 64
—100-Octane Gasoline 130
—Sun Ships 30
—Vanadium, a Metal Named for a Goddess 260
Vogel, M. R.—Gardens Without Soil 161

W

Wagon Drill, Foundation Testing with—C. H. Vivian 206
Washing Machine, Portable, for Streamliners 172
Water for Our Troops—Daniel Frost 20
Weeding with Flames 220
Wood, Fire-Resistant, for Blimp Hangars—R. G. Skerrett 5

X

X-Rays, Fifty Years of 145

January ..... Pages 2— 28 inclusive
February ..... Pages 30— 62 inclusive
March ..... Pages 64— 94 inclusive
April ..... Pages 96—121 inclusive
May ..... Pages 122—147 inclusive
June ..... Pages 148—173 inclusive
July ..... Pages 174—198 inclusive
August ..... Pages 200—224 inclusive
September ..... Pages 226—253 inclusive
October ..... Pages 254—279 inclusive
November ..... Pages 280—306 inclusive
December ..... Pages 308—333 inclusive